



Gulf of Mexico Harmful Algal Bloom Bulletin

2 December 2004

National Ocean Service

National Environmental Satellite, Data, and Information Service

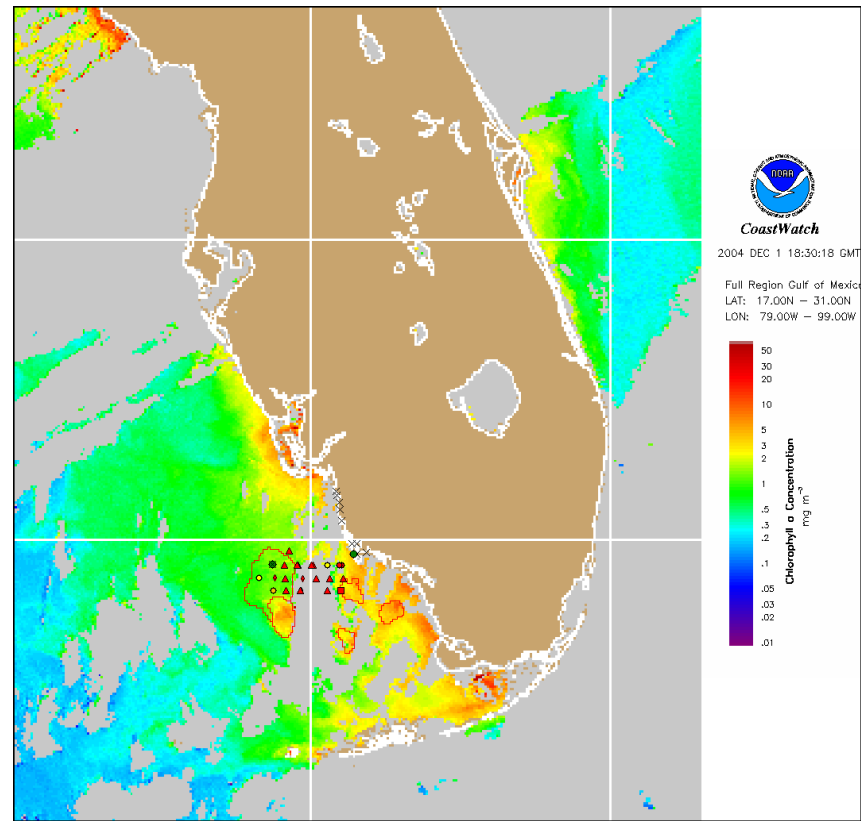
Last bulletin: November 29, 2004

Conditions: A harmful algal bloom has been identified off the coast of Cape Romano. No beach impacts are expected through Monday.

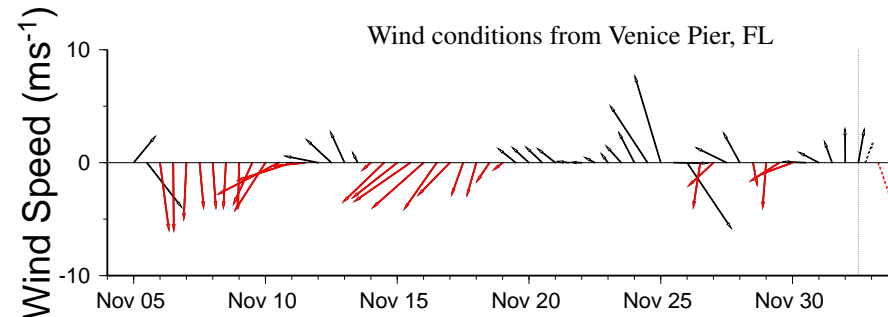
Analysis: The confirmed *K. brevis* bloom located southwest of Cape Romano has decreased in size over the past week. Cloudiness may be contributing to the blooms patchy appearance. New center at ($81^{\circ}45'W$, $25^{\circ}30'N$). Chlorophyll concentrations have also decreased to generally less than $6\mu g/L$ with a peak of $12\mu g/L$ in a patchy area offshore of Shark Point ($81^{\circ}25'W$, $25^{\circ}33'N$). Steady northerly winds through Sunday may transport bloom southerly and offshore. Beach impacts are unlikely through the remainder of the week.

~Fenstermacher & Fisher

* Offshore samples indicated in chlorophyll image were collected during the week of November 11 from a MERHAB cruise.



Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from November 21, 2004 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

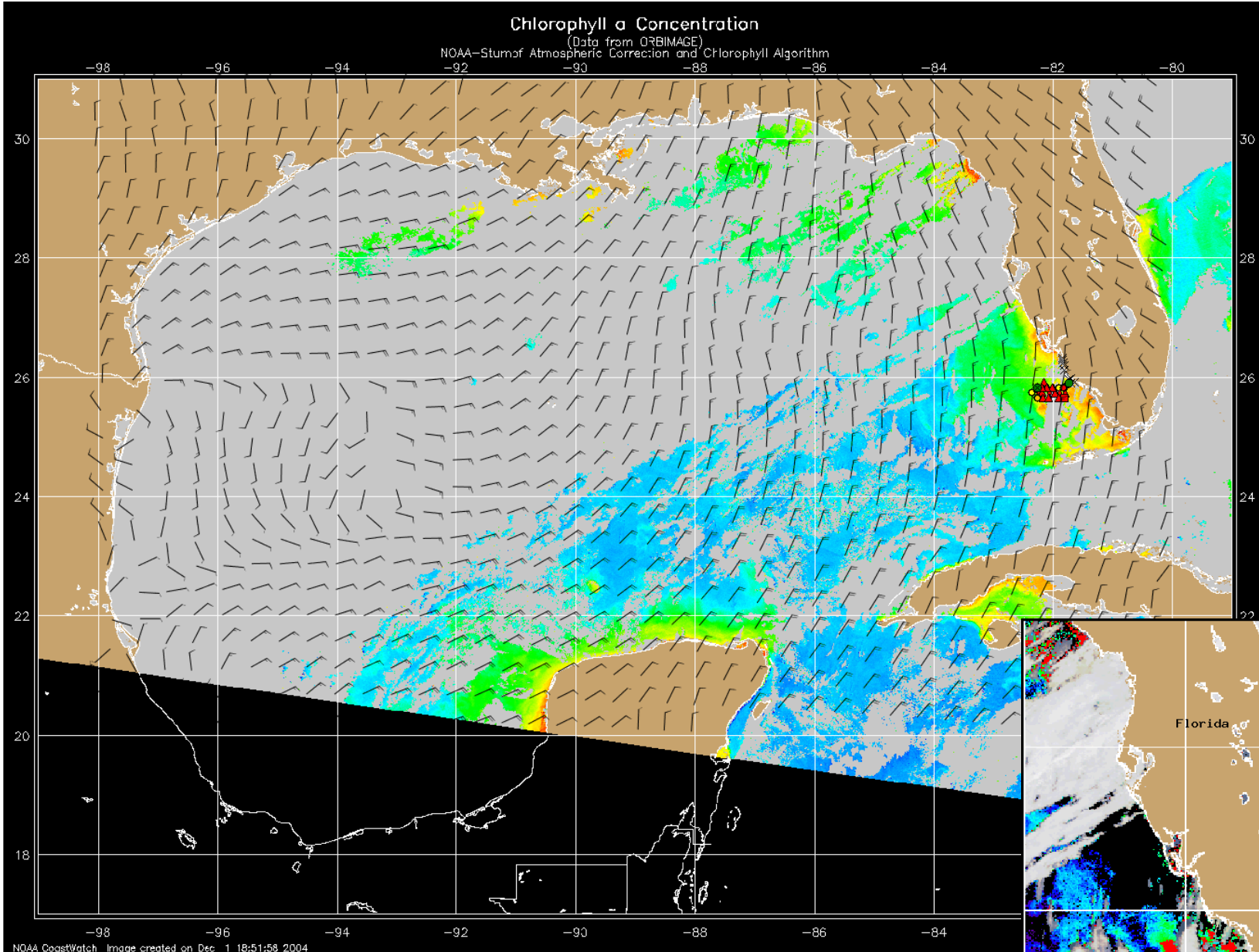


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Northwest ranging to northeast winds at a steady 5-10 knots (3-5 m/s) through Saturday. Winds forecasted to strengthen, 10-15 knots (5-7 m/s) easterly on Sunday and southeasterly on Monday.

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Chlorophyll concentration from satellite and forecast winds for December 3, 2004 12Z with cell concentration sampling data from November 21, 2004 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis and image for interpretation)